

AMENDMENTS TO THE CLAIMS:

The below listing of claims replaces all previous listings and versions of claims in this application:

1. (Currently Amended) A method comprising:

~~for performing synchronization of a mobile network device to a network control device of a present radio network region, further comprising the steps of:~~

detecting a source radio network region from which a handover of said mobile network device to said present radio network region has been performed;

determining a start propagation delay value based on said detected source radio network region of said mobile station; and

searching an actual propagation delay value by using a search strategy based on said determined start propagation delay.

2. (Previously Presented) The method of claim 1, wherein start propagation delay values are stored in a database for a plurality of adjacent sectors.

3. (Currently Amended) The method of claim 2, further comprising ~~the step of:~~

updating said database with said searched actual

propagation delay value after performing said search step.

4. (Previously Presented) The method of claim 3, wherein one start propagation value is stored for each adjacent sector.

5. (Previously Presented) The method of claim 3, wherein for each adjacent sector a plurality of start propagation values are used and an average of said plurality of start

propagation values is used as a basis for said search strategy.

6. (Previously Presented) The method of claim 5, wherein a distribution of said plurality of start propagation values is also used as the basis for said search strategy.

7. (Currently Amended) The method of claim 1, wherein said search strategy is an expanding window.

8. (Currently Amended) The method of claim 1, wherein said search strategy is a z-search.

9. (Currently Amended) A device,

the device being a network control device of a present radio network region, comprising:

a detecting means for detecting unit configured to detect a source radio network region from which a handover of a mobile network device to the present radio network region has been performed;

a determining means for determining unit configured to determine a start propagation delay value based on said detected source radio network region of said mobile station; and

a search means for searching unit configured to search an actual propagation delay value by using a search strategy based on the determined start propagation delay value.

10. (Currently Amended) The device of claim 9, further comprising:

a database in which start propagation delay values are stored for a plurality of adjacent sectors;

wherein said determining means unit is configured to access said database.

11. (Currently Amended) The device of claim 10, further comprising:

an updating ~~means for updating~~ unit configured to update said database with the current propagation delay value detected by said search ~~means-unit~~.

12. (Previously Presented) The device of claim 11, wherein one start propagation value is stored in said database for each adjacent sector.

13. (Currently Amended) The device of claim 11, wherein for each adjacent sector a plurality of start propagation values are stored in said database and said updating ~~means is adapted~~ unit is configured to use an average of said plurality of start propagation values as a basis for said search strategy.

14. (Previously Presented) The device of claim 13, wherein a distribution of said plurality of start propagation values is also used as the basis for said search strategy.

15. (Currently Amended) The device of claim 9, wherein said search strategy is an expanding window.

16. (Currently Amended) The device of claim 9, wherein said search strategy is a z-search.

17. (New) A device,

the device being a network control device of a present radio network region, comprising:

means for detecting a source radio network region from which a handover of a mobile network device to the present radio network region has been performed;

means for determining a start propagation delay value based on said detected source radio network region of said mobile station; and

means for searching an actual propagation delay value by using a search strategy based on the determined start propagation delay value.

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18. (New) The device of claim 17, wherein:

the means for detecting comprises a source cell detector;

the means for determining and the means for searching comprise a controller coupled to a memory.